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55      AAGAGTTGAAGGATGCCGTGCGCTGACGGCGGTTCCTCATCCTGAATATTTTAGGAGTTG
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        TCTTCCAATGTTCCCGAGGGTCTATGGCACAAATGCCCGTCTTGTTCCGCAACCGTTTAT
```

```
      TCTACCGAGTTGCAGCAGAACAATCAGGTTTGTCCGAAATGCAACCACCACAATCCGTTG
      TCGGCACGACAACGCCTGAACCTGCTTTTGGATGAGGATGGCAGGGAGGAAGTTGCCGGA
      AATGTCAAACCGACAGATCCTTTGAAGTTTAAAGACGGCAAAAAATATCCCGGATCGTTTG
      AGTGCGGCACGCAAGCTGACCGGGGAAGATGATGCTTTGGTGGTGATGAAAGGCAAGATG
  5   AACGGCCTGCCCGTCGTCGTTGCTGCGTTTGAGTTCCGCTTTATCGGCGATTCGATGGGT
      TCGGTTGTGGGCGAACGATTCGTACAAGGTATCCGTCGGGGGTATGCCGACAATTGTCCG
      TTCGTCTGTGTGTCGGCTTCCGTCGGCGCGCGTATGCAGGAGGGTGTAAACTCGCTGATG
      CAGATGACGAAAACCAGTGCCGCGCTGCATTTGCTGACGGAAAAACGCCTGCCATTTATA
      TCGGTGTTGACCGATCCGACTATGGGCGGCGTATCCGCCAGCTTCGCATTTTGGGCGAT
 10   GTCGTGCTTGCCGAACCGAACCGCTGATCGGTTTTGCCGGTCCGCGCGTGATTGAGCAG
      ACGGTGCGCGAAACGCTGCCGGAAGGCTTCCAACGCGCCGAGTTCCTGCTGGAAAAAGGC
      GCAATCGACCAGATTGTCGACCGCCGCGATATGAAGCGGCGCATCAGTGATTTGATTACG
      CTGTTGTGCCGTCAGGACAAAGTTTCCGCCGCCTGATGGCTGATGAATCGAGTACCGTCT
      GAAACCGATGTTTCAGACGGTATTTTTGTGTCTGGTTATTTGTTGTGCGGCTTTATCGAT
 15   GGGGCATAGCGTCCGGCACGTTCTTTCAGGCGTTGTACCAAACCTTTCGTGTCGGCGGGT
      ACACCGCCCTCGCAGAATGCCTGATACAGGACGGTGCGCAGTGCGTCGTTGCGGCTTAAT
      GTACCGCCTATCGGTTTCCATTCGGCGTTTCGGGGCTGTATCCAGCGGCGGTTGACCGTG
      TCGCCGTAGCCGAACACTTTATAGGAGGAAGGTTTGCCGTTGCCGAACCTGATGGAGAAG
      CGGGCGCAGAATATGCCTTTGGCAGTCAGGTTGTCGTAGCCTTTGTCGGAGCGGATATTG
 20   AGAATGTAGCGGATGCTGCCGTCGGGCGCGGGCATAATTTGCAGGCTGTCGAGCAGGATT
      TTCGGCTGTTTGCCGTAATTTTCATCCACATAAATGTCGAACCAGCCGTCCGAGTGCGTA
      TCGGGCAGCGGCGGCAGTTTGGCGGTATGTTCTTTAAATTCGCGGGCGGCCGGCCTCTTCG
      GGCGTTTCGCGGTAGCGGGTGTTGATCGGCGTGTCTTTTTGGCTGAAGCCGGCAGCGAGG
      GACGTGCCGGCGGCGAGTGCGAGCAGCAGGAGGGCGGTGCGGCGCATAAGTTTCTCCAAA
 25   TTGAAAACGGCGTTATTTTATGGGTTGGCAAAGGGGGCTGCAAGCAACTGGGGTATAATC
      TCCCCCCGATTCCCATTTTTAAACGGTACAAACGATGAACAGCGAAACTTTAGACGTAA
      CCGGATTGAAATGTCCCCTGCCGATTTTGCGGGCGATAAAGGCTTTGGCGCAAATGCAGC
      ACGGCGACCTG
```

 30   The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 38>:

gnm_38

```
      AGACAAACTTTTTGAACAGCATGACGGCAAACTCGAAAGCATGGACGGGCGGGAACAGGA
      GCTGGATTTGATTTGGCGGACAGAAGCCGATATCGGTAACGGCAGCATACTGCAATTTGT
      CTGCAACTGGGGTTTCCCCGCCGCCCGAAAAGACCTGTTCCGTTCTGAAAAAAATCGGCG
 35   CGGTACACAGCGCAATGCTGATCCATCGGGCGGCAGACGCATTGGACAAAGAAATCCGCC
      GCCTCCAATCGGAAGGTAAAAACCTGAAAGAAATGTGGGATATAACATCTCGACAACAAA
      ACCGCCTCACTGCTGAACAGTCTGGATGAACAATATTGGCAAGACCCCGACAAACTGTAT
      CTGCTGGGATGGCAATACTATTCCAGCAACCCTGTTCAGACGGTGGCGGATTCGCATTTG
      AAGTGCAACTTTCCCTAACAGAAAAAGGCCAGTATGCGGTAGCATACGGCCTTTCCTGCA
 40   AGAAAGATTGCCATGAGCTACACGCAACTGACCCAAGGCGAACGATACCACATCCAATAC
      CTGTCCCGCCACTGCACCGTCACCGAAATCGCCAAACAGCTGAACCGCCACAAAAGCACC
      ATCAGCCGCGAAATCAGACGGCACCGCACCCAAGGGCAGCAATACAGCGCCGAAAAAGCC
      CAGCGGCAAAGCCGGACTATCAAACAGCGTAAGCGACAACCCTATTAAGCTCGATTCGCAG
      CTGATTCAGCACATCGACCCCCTTATCCGCCGCAAACTCAGTCCCGAACAAGTATGCGCC
 45   TACCTGTGCAAACACCACCAGATCACGCTCCACCACAGCACCATTTACCGCTACCTTCGC
      CAAGACAAAAGCAACGGCAGCACGTTGTGGCAACATCTCAGAATATGCAGCAAACCCTAC
      CGCAAACGCTACGGCAGCACATGGACCAGAGGCAAAGTACCCAACCGTGTCGGCATAGAA
      AACCGACCCGCTATCGTCGACCAGAAATCCCGTATCGGCGATTGGGAAGCCGACACCATT
      GTCGGCAAAGGACATAAAAGC
```

 50   The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 39>:

gnm_39

```
    CCGGCAAACACCGGCGCGTCCCATCCGTGCAGAAAAAAGGATACGGAAAAGGATAAACGC
    CATAACGTGCGGCGTTTGCTATAATCCGCCCCTTCATTACCGCAGCCCGCCGAAAGATGC
    CGATGGCAAAACCGCTCAAATACCCCGTTTCCGCACTGGTCGTCCTTTATAGCGGGGACG
 5  GCGGCATCCTGCTCATCGAACGCACGCATCCGGAAGGATTTTGGCAGTCGGTAACCGGCA
    GCCTCGAACCGGGCGAAACCGTCGCCCAAACGGCAAGGCGCGAAGTTTGGGAAGAAACCG
    GCATCCTGCTGGCGGACGGGCAGCTTCAAGACTGGCACGACAGCACGGTTTACGAAATCT
    ACCACCACTGGCGGCACCGCTATCCAAAAGGCGTGTTTGAAAACCGCGAACACCTCTTCT
    CTGCCGAAATCCCGCGTGATACGCCCATCGCCCTGCAACCCGAAGAACACGTCTCCTACG
10  GTTGGTTCGATATGGAAGAAGCAGCGGAAAAAGTATTTTCCCCGTCCAACAGGCGCGCGA
    TTTTGGAACTGGGCAGGTTTTTGGGCAAACGGTAACACGCGCCCGTACACCCTTTCAGAG
    GCATCGGGCGCATTTTCAGCCGGACGTTTGTGCTATACTTTCAAACTTCACACTTTCCCA
    AACAAAGGAAACCAAATGGCAGACTTCAACCAAATCCTGACCCCCGGCGACGTGGACGGC
    GGCATCATCAACGTTGTCAACGAAATCCCCGCCGGCAGCAACCACAAAATCGAATgGAAC
15  gCAAACTGgCCGGCATTCCAACTCGACCGCGTCGAACCCGCCATCTTCGCCAAACCGACCA
    ACTACGGCTTCATTCCCCAAACTTTGGACGAAGACGGCGACGAATTGGACGTGCTGCTCG
    TTACCGAACAACCTTTGGCAACCGGCGTATTCTTGGAAGCGCGCGTTATCGGCGTGATGA
    AATTCGTTGACGACGGCGAAGTGGACGACAAAATCGTCTGCGTTCCTGCCGACGACCGCA
    ACAACGGCAACGCCTACAAAACTTTGTCCGATTTGCCGCAACAGCTCATCAAACAAATCG
20  AGTTCCACTTCAACCATTACAAAGACCTGAAAAAAGCAGGTACGACCAAAGTCGAATCGT
    GGGGCGATGCGGAAGAAGCGAAAAAAGTCATCAAAGAATCCATCGAACGTTGGAACAAAC
    AGGCATAACGCCCGCCATGCCGTCTGAACGCCGTTTCAGACGGCCATTTTCCAAGCTCTA
    GGGAATACCGTCCCAATCGGCTATAATCCGAACATACCGTTTCCGACCGAACGCCATGAA
    CCGCCGAAAAATCTATCTGTTGTCTGTTGCCCTCTTCACACTGGCATTTATGCTGCTCGT
25  CCTCTTGGGTGCTTATCTGCTGACCGTCGGCAGCAAAGCCTTCGCCGTCGCCTCCTTTCT
    TTTCGCATTCGGCGCACTGTTCGGACAAATCGGCAGCCTCGCCCTCTACCTGCGGCACAA
    ATCCCTACGCGCCGCCCAATCCGCCACAAAGGAAAACCGCTATGTCTGAAAAACCGGAAA
    AAATCGTTTTGGCAAGCGGCAATGCCGGCAAGCTCGAAGAGTTCGGCAACTTATTCAAAC
    CTTACAGCATCACCGTATTGCCGCAATCCGCATTCGGCATACCCGAATGCCCCGAACCCT
30  ATCCCACCTTTGTCGAAAACGCGCTGGCAAAAGCACGCCATGCCGCCAAATACAGCGGGC
    TGCCCGCGACTCGCCGACGACAGCGGCATCTGTGCCGCGCCTTAAACGGCGGCGCGGGCA
    TCCATTCCGCACGTTACGCGGGCGACAATCCCAAATCCGATACCGGCCAACAACCTGAAAC
    TTGCCGCCGAACTTGTCGGCAAGGCAGACAAAAGCTGCTGCTATGTCTGCGTATTGGTTT
    TTGTCCGCCATAAAGACGACCCGCGCCCGATTATCGCCGAGGGCGTATGGCACGGGCAGT
35  GGAACGACACGCCGCTCGGGCAAAACGGTTTCGGTTACGACCCGTATTTTTATCTGCCCG
    AACACGGCAAAACCGCCCGCCGAATTGGATACGGAGGTCAAAAACCGCGAAAGCCACCGCG
    CGCAGGCACTTGCCGAACTCTTACGCAAACTCGCCCTTTAAACATCAAAACAATACAAAG
    GAAAAAGAATGAAACCCATACGGAAAGCCGGTTTTCCCCGTCGCAGGGATGGGAACCCGCT
    TCCTGCCCGCCACCAAGGCCAGCCCGAAAGAAATGCTGCCCCATCGTCGACAAGCCGCTGA
40  TCCAATACGCCGTAGAAGAAGCCGTGGAAGCGGGCTGCACGGAAATGGTGTTTGTTACCG
    GACGCAACAAACGCAGCATCGAAGACCATTTCGACAAGGCATACGAACTCGACACCGGAACA
    TGGAAATGCGCCATAAAGACAAATTGTTGGAACACGTCCGCAACATCCTGCCGCCGGAACA
    TTACCTGCCTCTACATCCGTCAGGCGGAAGCACTGGGCTTGGGACACGCCGTCTTGTGCG
    CCCGCGCCGCCATCGGAGACGAACCCTTTGCCGTTATCCTTGCCGACGACCTGATTGATG
45  CCCCCAAAGGCGCGCTCAAACAAATGGTCGAAGTGTACGGGCGCAGCGGCAACAGCATTT
    TGGGCGTAGAAACCGTTGAAGCATCGCAAACCGGCTCATCACGGCATCGTCGAAACCGAAC
    AGCTCAAACAGTTCCAACGCATTACCGGCATTGTCGAAAAACCCGAAGACGCGC
    CCTCCAACCTTGCCGTTGTTGGACGCTACATCCTCACCCCGCGCGCATTTTCGACCTCTTAA
    CCAATCTTCCGCGCGGCCGCGGGCAACGAAAATCCAACTTACAGACGGCATCGCCAAGCTGC
50  TCCATCACCGAATTTGTCCTGGCGCACCCCTTTGAAGGTACGCGCTACGACTGCGGCAGCA
    AACTGGGCTACCTCGAAGCCACCGTCGCCTACGGTCTGAAACATCCCGAAACCGGCGAAC
    CCTTCCGCCGGCTTTTGGAAAAATACCGCACCGAATAACCCCATCAAGGAATCCTTATGC
    ACGACAAAACCTGGTCCGGACGTTTCAACGAACCCGTTTCCGAACTCGTCAAACAATACA
    CCGCCTCCATCGGTTTCGACCGACGGCTTGCCGAATGGGACATCCAAGGCTCGCTGGCAC
55  ACGCGCAAATGCTGAAAGAAACCCGGCGTGTTGGACGAAGGCGATTTGGCCGGACATCCGCC
    GGGGTATGGCCGGAAATCCTCGAAGAAATCCGCAGCGGCAAAATCGAATGGTCGTCCGATT
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   TGGAAGATGTCCATATGAACATCGAACGCCGCCTGACCGACAAAATCGGCGACGCGGGCA
   AACGCCTGCACACCGGCCGCAGCCGCAACGACCAAGTCGCCACCGACATCCGCCTGTGGC
   TGCGCGACCAGATTACCGTTATACAAAGCCTGATTCAAAGCCTTCAGACGGCATTGCTGG
 5 ATTTGGCGGAACAAAACGCCGAAACCGTCATGCCAGGCTTTACCCACCTGCAAGTCGCCC
   AGCCCGTCAGCTTCGGACACCATATGCTCGCCTACGTCGAAATGCTCGGACGCGCGATAAACG
   AACGGATGGCGGACTGCCGCTGCCGCGTCAACCGTATGCCGCTCGGCGCAGCCGCCCTTG
   CCGGGACGACCTACCCGATTCAGCGCGAAATCACCGCCGAGCTATTGGGCTTTGAACAAA
   TCTGCCAGAACTCGCTCGATGCCGTATCCGACCGCGATTTCGCCATTGAGTTCACAGCCG
10 CCGCCTCGCTGGTTATGGTTCACCTGAGCCGCCTGTCTGAAGAATTGATTTTTGTGGATGA
   GCCCGCGTTTCGGCTTTATCGACATCGCCGACCGTTTCTGCACAGGTTCGTCCATCATGC
   CGCAGAAGAAAAACCCCGACGTGCCCGAACTCGTGCGCGGCAAATCCGGCCGCGTCATCG
   GACACCTTATCGGTCTGATTACCCTGATGAAATCCCAACCCTTGGCGTACAACAAAGACA
   ATCAGGAAGACAAAGAACCCTTGTTCGACACCGCCGACACGTCTATCGACACGTTGCGGA
15 TTTACGCCGATATGATGCGCGGCGTAACCGTCAAACCCGACAATATGCGCGCCGCCGTGA
   TGCAGGGCTTCGGCTACCGCCACCGACTTGGCGGATTATCTGGTCAAAAAAGGCATGCCTT
   TCCGCGATGCCCACGAAGTCGTCGCCCAAGCCGTGCGCCACGCCGACCAAGCGGGCGTCG
   ATTTGAGCGAACTGCCGCTCGAAGTCTTACAAGGTTTCAGCGATTTGATTGCCGACGACG
   TTTACGGCGTGCTGACACCCGAAGGCAGCTTAAACGCCCGCAACCACTTGGGCGGTACCG
20 CGCCGGAACAAGTCCGCTTCCAAGTGAAACGCTGGCGGGAAATGTTGGCTTAACCCCCAA
   ATGCCGTCTGAAGAAATGTTCAGACGGCATTTTTAAAAGGCAAGAACACGATGACCGATA
   CGGATACCCAAGCCGACCGCTTCGAACAGATGATGTGGCAGGCGGTGGACAAACTTTTTG
   AACAGCATGACGGCAAACTCGAAAGCATGGACGGGCGGGAACAGGAGCTGGTTTTGATTT
   GGCGGACAGAAGCCGATATCGGTAACGGCAGCATACTGCAATTTGTCTGCAACTGGGGTT
25 TCCCCGCCGCCGAAAAGACTTGTTCCGTTCTGAAAAAAAATCGGCGCGGTACACAGCGCAA
   TGCTGATCCATCGGGCGGCAGACGCATTGGACAAAGAAATCCGCCGCCTCCAATCGGAAG
   GTAAAAACCTGAAAGAAATGTGGGGATATAACATCTCGACAACAAAACCGCCTCACTGCTG
   AACAGTCTGGATGAACAATATTGGCAAGACCCCGACAAACTGTATCTGCTGGGATGGCAA
   TACTATTCCAGCAACCCTGTTCAGACGGTGGCGGATTCGCATATAACGTGGGCCAATCTA
   TGTATAATAGGAATTCCAGAAGGAGTAGAAAAAGATAAGGGAATGGAAAATAGG
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30

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 40>:

gnm_40

```
   CATGAAAATGCAGGCAGTTGTTGTGAATAAAAATGTAGCGGGCGATGTGGAAGTAATCGA
   ACGCGAGGTTCGCCCGTTGGAATACGGCGAGGCATTGGTCGAACTCGAATATTGCGGCGT
35 GTGCCACACCGACCTGCACGTTGCGGCAGGCGACTACGGCGAAAAACCGGGCCGCGTGTT
   GGGACACGAAGGCATCGGTTTGGTTAAAGAAGTTGCCGACGGTGTGAAAAATCTGAAAGT
   CGGCGACCGCGTCAGCATCGCTTGGCTGTTCCAAAGCTGCGGCTCTTGCGAATACTGCAA
   TACCGGCCGCGAAACCCTGTGCCGTTCCGTATTGAACGCGGGCTACACCGCCGACGGCGG
   TATGGCGACCCACTGTATCGTGAGTGCCGATTACCGCGGTCAAAGTCCCTGAAGGTTTGGA
40 TCCTGCGCAAGCTTCCAGCATTACTTGTGCCGGTGTAACCACTTATAAAGCCATTAAAGT
   TTCCGGCGTTCGTCCGGGACAGTGGATTGCCATCTACGGCGGCGGTTTGGGCAACTT
   GGGGGTCCAATACGCGAAAAAAGTATTCGGCGCGCACGTTGTCGCCATCGACATCAACGA
   CGACAAACTGGCGTTTGCCAAAGAAACCGGCGCGAAGATTTGGTTGTCAACGCCGCCAAAGA
   AGACGCTGCCAAAGTGATTCAGGAAAAAACCGGCGGCGCACACGCTGCGGTCGTAACCGC
45 CGTATCTGCTGCCGCATTCAACTCTGCCGTGAATTGCGTCCGCGGGCGGTTGGTTTTGGACGG
   TGCCATCGGGCTGCCGCCGGAATCGATGGATTTGTCCATCCCGCGTTTGGTTTTGGACGG
   CATCGAAGTGGTCGGCTCTTTGGTCGGCACGCGCAAAGATTTTGGAAGAAGCCTTCCAATT
   CGGCCGCGGAAGGTTTGGTTGTGCCGAAAGTCCAACTGCGTGCTTTGGATGAAGCACCCGC
   CATTTTCCAAGAAATGCGCGAAGGCAAAATCACCGGCCGTATGGTGATCGGATGAAAAAA
50 AGAATGCGGCTGCGGCCATCACCACTGATTTGACGTGGCAGTACACATCGAAATGCCGTC
   TGAACGCTGTTCAGACGGCATTTTTTATGGATTTGGATTTGATTTTAATCTGTTCTGTTT
   GAAATACCGTCTGAAAACCCATATCGCAACACTTCATTAAAAACGGCAAGATTCAGCCGT
   TCTGCAACCCGTTCAAACGGCTTCCGCCATTTCCAACGCCTGTTTGATGTCCACGGCGAC
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    GACGCGCGAGACACCTTTTTCCTGCATGGTTACGCCGACCAGCTGCTCCGCCATTTCCAT
    CGTCAGGCGGTTGTGGGAGATGTAGAGGAACTGGGTTTGCGCCGACATTTCTTTGACCAG
    CCTGCAGAAACGCGAGCTGTTGGCGTCCTCCAGCGGGGCATCGACTTCGTCCAAAGGCA
    GAACGGAGCGGGGTTGAGGCTGAACAGAGCGAACACGAGGCTCATGGCGGTGAGGGCTTT
 5  TTCGCCGCCGGAGAGGAGGTGGATGGTGCTGTTTTTCTTGCCGGGCGGACGCGCCATAAT
    GGACACACCGGCGGTCAGTAGGTCGTCGCCTATCATTTTGAGAGTGGCTTCGCCGCCGCC
    GAACAGGGTCGGGAAGAAGGTTTGGACTTTGCTGTTGACGGCATCGAAGGTTTCTTTGAA
    ACGCGCTTTGGTTTTGTCGTCGATTTGGGCGATGGCTTCTTCCAAAAGGGTGATGGCTGC
    CTGCACGTCTTCGCTTTGGCTGCGGTAGTAGCCGTCGCGTTCGCGCGCTTCTTCGAGTTC
10  TTGCAGGGCGGCGAGGTTGACCGCGCCGAGTGCTTCGATTTGTTGCGAAAGGCTGCCGAT
    GCTGCTGTTCAATACTTTCGGCGATTCTTTCGCCAACGCTTCGAGCGCGTCCAAATCGGC
    GGCGCGTTCGGTCAGGTTTTGATGGTAGCGTTTGGCGTTGATCAGGGCTTCCTGCTGCTG
    CAACAAGGCGGTTTGGGTGGCGGCCTGAAGCTGCGGCAGCTTGGTTTGCAGGGTTTGCAC
    TTTAGCGTATTGCTCCCTGCCCTGTTCCTGAATCTGCGCGAGTTTCTCTTGCACAACAAT
15  ATATTCTTCGTCCAAGGTCTGTACGGCTTCGCTTAATTCTTCAAGCTTGATGTGCTGCTC
    GTCGTTTTGGAACTCGGTTTCATAGGCGAGGGCAAGCTCTTGCTGGCGTTCCTGCCAGTC
    GAGGGTTTGCTGTTCAAGCTGGGCGATTTGCTGCCGGTAGTTTTGTTTTGCTGGTTGAG
    TTTGTGGACGGCGACTTCGGCAAGCCCGTATTGGCGGTTGGCTTCCAACAGGGCAAGCTG
    CGCCTGTTTCAGACGGCCTTGCTGCTCTTGGCGGCTGTGCGCGGTGGTTTGCTGCTGGTG
20  TTCGAGTTCGGCGGCGGCTTCCTGCAAGGTAACGATGTCGTCTCGAAAGCCCGTCGGACGT
    GTGTTGCAACACGGTCTGTTCTTCCGCCAACTGCGCCAGTTCGCGCTCGATGTGTTCGCG
    GCGGATTTGCCCTTGGTTGGTACGCGCTAAGAGTTCGGCGGCGCGCTTGCTGTGCTTGACT
    GTATTGGCGCGTGTGCTGCTGTTGCTGCTGCATCAGGTTTTTATGTTGCACTTCAGACGA
    GCGCACGGCAGCTTCCGCCTGTTTGAACGCGGCTTCGGCGGCGGAAAGTTCGGGGGCGAG
25  GTTTTCCAGTTCGGACGCGATGCCGTCGAGGCGCGCTTTTTGGGCAATCAGGCTTTCCTG
    CGCGGGTTTGGCATAGAGCAGGACGACGCTGACTTTATCGACCTGATGACCTTCGGGCGTGAG
    CCAGATTTGGTGTGCGCCCAAATCGTTTTGATGCGCGAGGGCATAGCTCAAATCGGGCGC
    GCACAATACGCCGTCGAGCCAGTAGTGCAATGCCGTCTGAAACGGCGGCTGCGCTTGGAT
    TTGGTTCAGCAATGCCTGTACGGGCAGGGATTTTTGATGCCGCCTGAGAGGTCGTCTGA
30  AAGCCATGCCGCCTGCCCCTGCGCGCAAAGGCTCGGGCGGCACGAAACCTTGCGGCACGGC
    GCGGGCGTGCAGGCGTTCGGCAAGAATGACGGACAAGGCGTGCTGCCACTCGGCGGGCGC
    GGTGATGTGTTGCCACAGTTGCGGCGCGGCGGCGTGGTCGGTTGCCTGCCAGAAATCGGC
    GGCTTCCTGCTGTTGCGACAGGATTTGCGACAACGCCTGCTGCTGCGCCTGCAAGGTGAT
    GTGTTGCTGCTTCAGGCTTTGGAAGCGGTTTGAGGCCGCTCGAAACGCCTCGCGGGCGGC
35  GTGTAAGGCTTCTTCGGCGGCAATGATTTGTTCTTCGTAATGCTCTTGCTGACTTTGCAA
    CAAGGCGGCTGCTTCCTGCGCGGCGGCGGTTTCGGCTTCGTCGGGCAGGTTTAAGGCTTG
    GTTTTCCTGTTTCAGACGACCTTTGCGCTCTTCGTGCTTCTTTGGCAATCGTTTGTTCGGCATG
    GGCAAGCTGCTGCTGCTTCAACGCCAGTTCGCGGCGGATGCGGTTTGCCTCGTCCTGCTG
    GGTTTGGAAGGCGGCGTTGAGCGTGGCTTGGGCTTCTTCCAATTCGGGCGAGACGCTCCTC
40  GTGTTCGGCAACCTGCATCGCCCATTCCGCCAGCTCGGTTTGTTTTTTCTTCGACCTGCAA
    CTCGTTTTCTTCAAGCTGCACGCGGATTTGCTGCTGCTTCTTGATGAATGCGTTGTAACTG
    CGCCTGCGCTGCCTGCTTGTCGCGTTCGATGCGTTGGTGCAGGTTTTTGCTGATGGCGGAT
    TTGTTCTTCCAAACGGGCAATCTGCTCGCGCAACACGCCGCGCTTGTTGCTCAATTCATG
    CACTGCCTGCTGCTGCGACTGTTCGGCAGTCTGCAAGGCGTGTACTTCGTCGTTTAACGC
45  CTGAACCTGCGCGGCGGTTTCGTCCTGCTGCGGCCTGCAAAGATTGATGCTGCGCGGTCGC
    CTTATCGGCGGCGGCAAGCGATTGCCGCCATTGGGCGTAATCGAGCAAATCCTGTTGCTG
    ATTCAGCTGCGCGGTCAGGGATTTGTAGCGTTCGGCGGTTTCCCGCTTGTTTTTCCAGCTT
    TTCCACCTGACGCGCCAACTCGTTCTGCAAATCGCCCAAACGCTGCAAATGCTCGCGCGT
    GTCTTTCAGACGACCTTCCGTCTCCTTGCCGGCGTTCCTTATATTTGGACACGCCCGCCGC
50  CTCCTCGATATAGGCGCGCAACTCCTCCGGCCGCGCTTCGATGATGCGCGAAATCATCCC
    CTGCTCGATAACGGCATAACCGGCGGCCCACACGCCCGTACCCAGAAACAAATCGGTAAT
    GTCGCGGCGGCGCACGGTCTGATTGTTGATGAAATAAGTCGATTCGCCCTGCCGCGTCAG
    CTGCCGCTTGATGCTCACCTCGGCATACTGCCCCCACGCCCCCTGCAAACTGTGGTCGCT
    GTTGTCAAACACCAGCTCCACCGAAGCCCTCGGCGCAGGACGGCGCGTCGCCGCACCGTT
55  AAAAATCACGTCCTGCATACTCTCGCCACGAAGCTGCTTCGCCGAAGCCTCGCCCAACAC
    CCAGCGCACCGCGTCAATCACATTCGACTTGCCGCAGCCGTTGGGCCCGATAACCGCGAC
    AAGCTGCCCCGGCACATGAATCGTGGTCGGGTCGGTAAAAGATTTGAAGCCGGAGAGTTT
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      GATATGGGTCAGGCGCATAATGGTCGGAAAAAATAAAAAAGAAGCGTATTTTAACGGAAA
      TCCCGCCGCACCACCCCATATCTTGCCGGCAAAACCTTACCGCATCCCGCACCCTCGATG
      CCGTCTGAAGCCTTCAGACGGCATTTTAACGCGCCCGAACCCCGGTTCCGCCAATGCCC
      GATGCTTGGCGCGGCATTTGCCGTATTGCCCGCCGCCGGGCGGCATTATAATCCGCCCCG
   5  ACATCCGCCCGATTGGAAACCTGCCTATGAAACCCGCCTATTTCATTTCCGACCTGCATT
      TGAGCCAAAAGCAGCCCGAACTGACCGCGCTGCTGCTGCGGTTTTTACGTTCTTCCGCCG
      CCCGGCAGGCGCGGGCGATTTACATTTTGGGCGATTTGTTTGATTTTTGGGTGGGCGATG
      ACGAAGTTTCCGAGTTGAATACTTCGGTTGCGCGTGAAATCAGGAAATTGTCCGACAAAG
      GCGTTGCCGTGTTCTTCGTCAGGGGCAACCGCGACTTCCTGATCGGTCAGGATTTTTGCC
  10  GGCAGGCGGGCATGACGCTGCTGCCGGATTACTCGGTTTTGGACTTGTTCGGCTGCAAAA
      CCCTCATCTGCCACGGCGACACTCTGTGTACAGATGACAGGGCATACCAACGTTTCCGCA
      AAATCGTGCATCGGAAGCGGCTGCAAAAACTGTTCCTAATGCTGCCCCTGAACTGGCGCA
      CGCGCCTTGCCACCAAAATCAGGCGTGTCAGCAAAATGGAAAAACAGGTCAAGCCCGCCA
      ATATTATGGATGTCAATGCCGCCTTTACCGCGCGGCAGGTACGCGCCTTCGGTGCGGAAA
  15  GGCTGATACACGGACACACCCACCCGCGAGCATATCCATCACGAAAACGGCTTTACCCGCA
      TCGTTTTGGGCGACTGGCATAACGACTATGCTTCAATCCTCCGCGTGGACGGGGACGGCG
      CGGTATTCGTGCCGCTGGAAAAATACTGAAAATGCCGTCTGAAGCCTTTCGGGCGGCTTT
      TTTTACACGCCCCTTTCCCACACTCCCTCCGCCGCATCATCACTATCCTTAACCCGCATT
      AATAGCCATTATCGATAAAATGCTTGACCGATTACATAAGATTACGTAAAGTGTGCAAAC
  20  GCATAACAATTGGTCTTACCAATTTATCTTTTAACCAAAATATCGGGTGTACGGGATTTG
      AACGTCTTTCCAAACCTCGACGCGCCTTATGATGCAAATGCCTAAAAAGGATTCGTTATG
      GCACTTTTCCTCAGCATATTCCCCATCGTCCTGCTGATTTGGCTGATGGTGAAAAAAAC
      AGTATGCCCTCCTACGTCGCGCTGCCGATTACCCCAGTGCTGATTTACGCCATCAAACTT
      TTCTACTTCGACGATGCGGGCATGCTGCTCAACGCCACCGCCGCTTCCGGCCTCGTCAAA
  25  ACGCTCACGCCGATTACCGTGATTTTCGGCGCGATTATGTTCAACCGTATGATGGAAACC
      ACGGGCTGCATCGATGTCATCCGCAAATGGCTGGCGACCATCAGCCCGAACCCCGTAGCG
      CAACTGATGATTATCGGCTGGGCTTTTGCCTTTATGATTGAAGGCGCATCCGGCTTCGGT
      ACGCCTGCCGCGATTGCCGCGCCGATTCTGATGAGCTTGGGCTTCAACCCGTTGAAAGTG
      GCGATTTTCACTTTGGTGATGAACTCCGTCCCCGTCTCTTTCGGCGCGGTCGGTACGCCG
  30  ACCTGGTTCGGTTTCGCACCGCTGAACCTGAGTGCCGAAGACATCCTCGCCATCGGCAGG
      CAGACCGGCGTAATGCACTTCTTCGCAGGTTCGTCATCCCGTCATCGGCTTGGGCTTC
      ATCGTACCTTGGTCTGAAATCCGCAAAACTTGGGCTTCGTCGCCATTGCCGTCTTCTCC
      TGCACCATTCCTTATGTCGCATTGGCGATGGTCAACGAAGAATTCCCGTCGCTCGTCGCC
      GGCGCGATCGGCCTGATGGTGTCCGTATTCGCCGCCAACCAAGGCTGGGGCTTGAGCAAA
  35  GACCACGCCAAAGACCCGAATGCCGAAAAAGTGCCGTTCGCCCAAGTCGCCAAAGCACTC
      GCCCCTTTGGGTATGCTGATCGGCATGCTGGTGGTTACGCGCATCAAACAGCTCGGCATC
      AAAGGCATTTTGACCAGCAAAGAAGAATGGTTCAGCTTCCAACTGCCGTTTGATTTGTCC
      AAAATCACCGTCAGCGACTCCCTGACGATTACCTTCGGCAATATTTTCGGACAAGATGTC
      AGCGCGTCTTACCAAACGCTGTACGTCCCGGCTTGGATTCCGTTTGTGCTGACCGGTTGG
  40  ATTTGCATCCTGCTGTATAAAACCAAATTCAAAGATGCCTGGACGATTTATTCCGTAACC
      TTCAATCAAACCAAAAAACCGCTGCTTGCCCTGATGGGCGCGCTGATTATGGTTCAGCTG
      ATGCTGGTCGGCGGCGACAATTCGATGGTGAAAATCATCGGTAAGGAATTTGCCGCAATG
      GCGGGCGAACACTGGGTTTATTTCTCGCCGTATCTGGGCGCGATCGGTGCGTTCTTCTCC
      GGTTCCAACACCGTGTCCAACCTGACCTTCGGCCCGATTCAGCAGCAAATCGCCTTGGAT
  45  ACCGGCCTGTCCGTTACCCTGATTCTGGCGTTGCAGTCCGTCGGCGGCGGCGATGGGCAAT
      ATGGTGTGCCTCAACAACATCATCGGCCGTATGTACCGTATTGGATGTGAAAAATTCCGAA
      GGTGCGATTATCAAGAAAACCGTTATCCCGATGGCGATTTACGGCGTGATTGCCCTCGTC
      GCGGCAATGATTTTCTTCCTCTAGGCGAAACGCCACCATCATCATAGCGGCACGCACGCGGGG
      AACGGAAACCGCCGTTCACCGTCTGGGCGGCGCGTCGGGCAGAATCCCGGTGCCGGAACA
  50  AGCCCGCCCCGCCAAACAAATGCCGTCTGAAACCGAAAAAGGCTTCAGACGGCATTTTTC
      CGCCGTTTGCGTTCAGGCGTAATGATGATGCGGCATCTTGCCGTCAAGGCGGTAGCGCGT
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   GCACATCCGAAGCCGCCTTTGCCCTGTTCGTCCACCGCTTTCCCrAACACGCATACGGCG
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25 GTTTGCTGCCCTCCCCAAAAATGCCGTCTGAAAAAACACTGAATCTGATGCGGCGTTTCG
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40 GACCGCCGCCGCCCTTCAAAATGAAACGCTTGAAAATTCGGACGCACGTTGTAGAATTTT
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 41>:

gnm_41

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50 CGTGAATATATTGATTTTTCAGGCGGTATCGCCGTCAATGCGCTGGGACACTGCCACCCT
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 5    GAACATTACGGCATTGTTCCCGATATTTTGAGTTCGGCAAAAGCCTTGGGCTGCGGCTTT
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10    CTCGGCTGCGTGTTGGACGAAGCCTATCGCGGACGCGCATCGCGAAATCACCGCCGCCGCC
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 5  AAGCCCTAAAATTTATGCAGGAAAAAGGCGTTGAGTTTGCACATTTGGCAGATTGGGTAA
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    CCAATGGTGTGGATGACTTTTTGCATTACCAAATTTTCATTGAACCAAAAGGTGAGCATT
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35  TTTGCCTCTCAAAATCGAAGCATCGACATCTTGAATATCGCGGTGTCCCGTAAACGCCAT
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45  CGGTTTCGGCGGCGCGGACAGGCCGTTTTTGATGTCTTTGTGGCGTTGCCCCAAAACCTG
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50  CGTCGGCGCAATCGCCACCGGCATTTTCACATCCTGCCGATCATTTTGGTTTCCAGGCT
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 42>:

gnm_42

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35    TTAGGTGTTGAATATACAATAGATGGTTGGCAAAAAATTGGAGGTTGGGTAATGGGATA
      ATCAATGATTTATATAAAAGTGTTGTAAAAAGAGAGTGGACTGGAATATTTGAGATCGTT
      AATAATAACATCAAGCAATTTAGAGATCTGTTCCCAAATCCGGAAGGCTGGATCGATGAT
      GGTCACCAATGTTTCGCTCCTTGGGTTAAAGAAACTAAAAAACGCAATGGCAAATATCAT
      GTCTACGACCCCCCTTGCCCTAGATTTGGACGGAGACGGCATAGAAACTGTCGCTGCCAAA
40    GGCTTTTCAGGCAGCTTATTTGATCACACCAACAACGGTATCCGCACCGCCACCGGTTGG
      GTTTCTGCCGATGACGGTCTGCTTGTGTCGCGATTTGAACGGCAACGGCATCATCGACAAC
      GGTGCGGAACTCTTCGGCGACAATACCAAACTGGCAGACGGTTCTTTTGCCAAACACGGC
      TACGCGGCTTTGGCCGAATTGGATTCAAACGGCGACAACATCATCAACGGCGGCAGACGCC
      GCATTCCAATCCCTGCGTGTATGGCAGGATCTCAACCAGGACGGCATTTCCCAAGCTAAT
45    GAATTGCGTACCCTTGAAGAATTGGGTATCCAATCTTTGGATCTCGCCTATAAAGATGTA
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      GGTACAACCGCAAAAATGGGGGATTTACTTTTAGCAGCCGACAATCTGCACAGCGCCTTC
      AAAGACAAAGTGGAACTCACTGCCGAACAGGCAAAAGCCGCCAATCTTGCGGGCATTGGC
      CGTCTGCGCGATTTGCGCGAAGCTGCCGCATTGTCCGGCGATTTGGCCAATATGCTGAAA
50    GCTTATTCTGCCGCCGAAACTAAAGAAGCACAGTTGGCATTGTTAGATAATTTGATTCAC
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      TGGACGCAAACGCTAATGAAGGTATTGCACTGACACCATCCCAAGTAGCACAACTAAAA
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      CGCATTGCCGTGCCTGCTTGATGCCTACACGGGGCAGGATTCCAACACACTCTATTACATGAGC
55    GAGGAAGATGCGGTTAATATCGTCAAAGTAACCAACGATACATACGACCATCTCGCCAAA
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      TTCAAAATGGAAAATGATACGTTCACTTTGGATTTTAGTGGTCTTGTTCAAGCATTTAAC
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CATGTCAAAGAAACTAATCCGCAAAAAGCTTTTGTGGATTTGGCCGAGATGCTTGCATAT
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AAAAAAGCAGGTAAATTTGAAGATTACCAGAAAGTGTTGGGTCAGGAGACCGTTGCATTA
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AATGACTATTTGGAGGGCGGCAGCGGTTCGGATACTTATGTCTTCGGCGGAAGGCTTCGGT
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GACGGTATTACAGCCGATATGCTGACTTTTTACCCGAGAGGGCAACCATCTTCTTATCAAG
GCAAAAGACGGCAGTGGACAAGTTACTG
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 43>:

gnm_43

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CCTCGTAAAAGTTCCATGCTTTTTCATGGAAATAGAAAACGACGGTGTTGATTAGGGGTT
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     GAATATCTTTGCCGATGAAGTGGTACATCTCGGTTTGGCTGTCGGCTTTGAAGTATTCGT
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5    CTTTCATTTTGTTGAGGGCTTCGGCTTGCAGATGGGGCGTTGCCGTCGTGCGGGTTGTTGC
     CGGAAGTCCATGCTTTGAGGAAGTCGGCGCATTCGCCCAGTTTGAAGAAGAAGTGTTCGG
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20   GACAGTTTGCCGACGTGGCGCGGTGCGCGGATAACGTGCACACCTTCGGTGGCATTAAAA
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     ATGTAGGTGATTTCCTTCAGCTTCAACGCACCTTCGAGGGCAATCGGGTAATGGATGCCG
25   CGCCCTAAAAACAGCGCGCTGGTTTTCTTGGCAAACTGTTGCGCCCATGCGGCAATTTGA
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30   ATGGAGAGGCTGTGGCCGGTGTCCCAAGGATTTGGCGTATTTCAACGCCTCCATCGTGTCC
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     AGCGCGATGTCGCCGTCTTCGAGGTACGCCACGCGGCGCGTAAAGGCGATGACGGCGGAT
     ACGTCCGAAGCGATAAAGGTTTCATCGTCGCCCAAAGCGACCAAAAGCGGGCAGCCCATA
40   CGCGCCACAACTAATTCATCAGGCTTGTCTTGGGCAATAAACCGCGATGGCGTATGCGCCG
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     TCGTGATTGATGCTGTGTGCGATGACTTCGGTATCCGTTTGCGATTCAAAACGGTATCCC
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     GGCGGTGTTGGCGGGCTGCGGCAAGGATGCCCAGGTGTTACGAGGGTTATTGGCGCGAAAA
55   GTCGGACAAAAAAGAGGGTATGATTGCCGTCAAAAAAGAAAAAGGCAATTACTTCCTTAA
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TGATGCGGACAAGGGCTTTTCCGCTCCGCAAACCGGCAGGCAGGGGGACGGAGATAAAAT
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 44>:

gnm_44

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5    GTGGAGGTATTGGAGCCGTTTGGGGTGGAAGTGGAGAAGAAGTTTGGTTAGAGGCCAACA
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